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## Sim

Click here to view these alignments graphically with the LALNVIEW program (mime-type chemical/x-ain2).

Click here to download LALNVIEW (Unix, Mac and PC versions available).
You can also have a look at a sample screen of LALNVIEW and access its documentation.

## Results of SIM with:

Sequence 1: seq (448 residues) Sequence 2: seq (448 residues)

#### using the parameters:

Comparison matrix: BLOSUM62 Number of alignments computed: 20 Gap open penalty: 12 Gap extension penalty: 4



Evaluate the significance of this protein sequence similarity score using PRSS at EMBnet-CH.

,	entity in 445 residues overlap: Score: 1857.0; Gap frequency: 0.0%  1 MNMPETGPAGIASQLKLDAHWMPYTANRNFORDPRLIVAAEGNYLVDDHGRKIFDALSGL
seq	1 MNOPLNVAPPVSSELNLRAHWMPFSANRNFOKDPRIIVAAEGSWLTDDKGRKVYDSLSGL
seq	MNOPENVAPPVSSEINERATHERE SARRIE CARE TO THE SAR STATE OF THE SARRIES OF THE SARRI
seq	61 WTCGAGHTRKEIADAVTROLSTLDYSPAFOFGHPLSFOLAEKIAELVPGNLNHVFYTNSG
seq	61 WTCGAGHSRKEIQEAVARQLGTLDYSPGFQYGHPLSFQLAEKIAGLLPGELNHVFFTGSG
369	网络罗斯克斯 医甲状腺 电影 医电影 医电影电影 医性性性性性性性性性性性性性性性性性性性性性性性性性
·	121 SECADTALKHVRAYWRLKGQATKTKIIGRARGYHGVNIAGTSLGGVNGNRKMFGQLLDVD
seq	121 SECADTSIKMARAYWRLKGQPQKTKLIGRARGYHGVNVAGTSLGGIGGNRKMFGQIMDVD
seq	· · · · · · · · · · · · · · · · · · ·
	181 HIPHTYLPVNAFSKGLPEEGGIALADEMLKLIELHDASNIAAVIVEPLAGSAGVLPPEKG
seq	181 HLPHTLOPGMAFTRGMAQTGGVELANELLKLIELHDASNIAAVIVEPMSGSAGVLVPPVG
seq	TOT UPDUTTO LOCATE INCOME GOAD THE TOTAL TO THE PROPERTY OF A PARTY OF THE PROPERTY OF THE P
	241 YLKRIREICTOHNILLIFOEVITGFGRMGAMTGSEAFGVTPDIMCIAKOVTNGAIPMGAV
seg	
seq	241 YLORLREICDONNILLITEDEVITATEMENT ISGADIEGA ESTADA ANTARA ANTAR
	301 IASSELYOTEMNOPTPEYAVEFEHGYTYSAHPVACAAGLAALDULOKENLYOSAABLAPH
seq	THE REPORT OF THE PROPERTY OF
seq	301 TASSETYDTEMNOALPEHAVEFSHGITISAHEVACAAGLAAUDIILAA

	•
	erenega messa. De sono erenegamente estante de mais dese
	361: FERLLHGVKGTKNIVDIRNYGLAGAIQIAARDGDAIVRPYEAAMKLWKAGFYVRFGGL
seq	361 FERGLHGLQGAKNVIDIRNCGLAGAIQIAPROGDPTVRPFEAGMKLWQQGFYVRFGGE
eq	Ann und eine berte einengen fant net in gene gebbingen
	No. 10 and 10 an
seq	421 OPGPTFNTKPOELDRLFDAVGETLN
seq.	421 OFGETENARPEELDRIFDAVGEALN
	***************************************
32.0% Îde	ntity in 25 residues overlap; Score: 29.0; Gap frequency: 0.0%
seq	315 TPRYAVEFPHGYTYSAHPVACAAGL
sed.	82 TLDYSPGEOYGHPLSFOLAEKIAGL
.*	
and hard	ntity in 26 residues overlap, Score: 27.07 Gap frequency: 0.0%
52:12 109	acticy in 26 residues overlay, score, evilor cop residence.
şeq.	211 Lielhdashtaaviveplagsagvlp
seq	374 VIDIRNCGLAGAIQIAPROGDPTVRP
20 50 222	ntity in 15 residues overlap: Score: 26.0; Gap frequency: 0.0%
33.3% 100	Utility in its residues overtapt score: 20.01 deb 210400.013
seq	120 GSECADTALKMYBAY
seq	201 GVELANELLKLIELH
25.0% ide	ntity in 28 residues overlap; Score: 26.0; Gap frequency: 0.0%
seq	82 TLDYSPAFQFGHPLSFQLAEKIAELVPG
s <del>o</del> g	419 TLOPGPTFNARPEELDRLEDAYGEAUNG
0.5 40 414	ntity in 11 residues overlap: Score: 26.0; Gap frequency: 0:0%
36.9% IGE	ULITA IN IN TESTURES GASTISDA STANDA STANDA SER SHAMESAND
seq	400 YEAAMKLWKAG
seq	54 YDSLSGLWTCG
•	
38.58 ide	ncity in 13 residues overlap; Score: 26.0; Gap frequency: 0.0%
seq	3 MPETGPAGIASOL
seq .	196 MAQTGGVBLANEL
	And the second of the second o
٠,	
27.3% ide	ntity in 22 residues overlap; Score: 25.0; Gap frequency: 0.04
200	253 NTLLIFDEVITGFGRMGAMTGS
seq:	282 DIMNVAKQVINGAVPNGAVIAS
sed	. 8.44 - A. 4. (1.11) A. L. (1.11)

http://www.expasy.ch/cgi-bin/sim.pl?prot

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444

```
30.4% identity in 23 residues overlap; Score: 25.0; Gap frequency: 0.0%
             242 LKRUREICTOHNILLIFDEVITG
sëq
             208 LIKLIELHDASNIAAVIVEPMSG
seq
50.0% identity in 10 residues overlap; Score: 25.0; Sap frequency; 0.0%
              99 LAEKTAELVP
860
             350 LVQQSAELAP
seq
30.41 identity in 23 residues overlap: Score: 25.0: Gap frequency: 0,0%
             214 LHDASHTAAVIVEPLAGSAGVLP
BRG
             368 LOGARNVIDIRNCGLAGAIQIAP
seq.
50.0% identity in 8 residues overlap; Score: 24.0; Gap frequency; 0.0%
               4 PETGPAGI
seq.
             227 PHSGSAGV
s'eq
62.5% Identity in 8 residues overlap; Score: 24:0; Gap frequency: 0.08
              385 AIQIAARD
             341 ALDILARD
 seq
                  * 9 ***
 23.3% identity in 30 residues overlap; Score: 24.0; Gap frequency: 0.0%
               63 CGAGHTRKEIADAVTROLSTLDYSPAFOFG
 88Q
              335 CAAGLAALDILARDNLVQQSAELAPHFEKG
 seq
 35.3% identity in 17 residues overlap; Score: 24.0; Gap frequency: 0.0%
              210 KLIELHDASHIAAVIVE
 seq
              244 RUREICDOHNILLIFDE
 seq
 50.0% identity in 8 residues overlap; Score: 23.0; Gap Erequency: 0.0%
              325 GYTYSAHP
 860
              423 GPTFNARP
 seq
```

http://www.expasy.ch/cgi-bin/sim.pl?prot

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100.0% identity in 4 residues overlap; Score: 23.0; Gap frequency: 0.0% 311 MNOP seq seq 1 MNQP 45.5% identity in 11 residues overlap; Score: 23.0; Gap frequency: 0:0% 218 SNIAAVIVEPL 229 SGSAGVLVPPV pes seq 50.0% identity in 8 residues overlap; Score: 23.0; Gap frequency: 0.0% 419 TLOFGPTF 82 TLDYSPGF 999 seq 60.0% identity in 5 residues overlap; Score: 23.0; Gap frequency: 0.0% 131 VRAYW 17 LRAHW seq Site Map Search ExPASy ExPASy Home page

http://www.expasy.ch/egi-bin/sim.pl?prot.

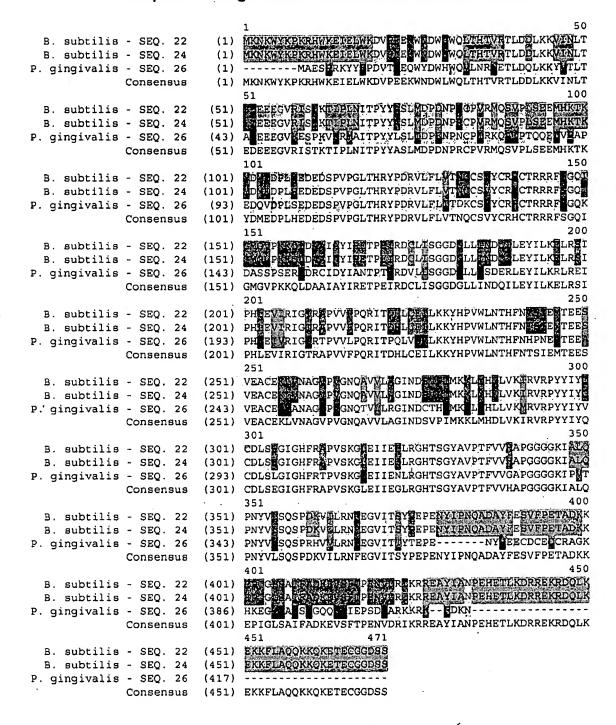
3/12/2009

# Sequence Alignment and Identity Table GenBank: AAG06957 and GenBank: AAA25891

		1						50
AAA25891	(1)	MSVPVRHLIA	GAFVEGLGA	ORIPVSNP	LDNSTLA	AEIACASA	<b>AEQVEQA</b>	VAS
AAG06957	· (1)							. <b></b>
Consensus	(1)							
	(-)	51						100
AAA25891	(51)	ARETFASWKE'	TPVSERARV	MLRYOALL	KEHHDEI	LAKIVSSI	ELGKTFE	DAK
AAG06957	(1)							
Consensus	(51)							
	, ,	101					•	150
AAA25891	(101)	GDVWRGIEVV:	EHACNVPSL	LMGETVEN	VARNID	TYSITQP	LGVCVG1	(TPF
AAG06957	(1)			<del></del>				
Consensus	(101)							
		151						200
AAA25891	(151)	NFPAMIPLWM						
AAG06957	(1)						MTD]	-
Consensus	(151)							AL
		201	_ 1					250
AAA25891	(201)	Q VHGGKEQV	DLLKHPQV	KAVSF	VAVGQY	VYHT T	HNKR	3FAG
AAG0,6957	(8)	G GNMGGPMA	-					
Consensus	(201)	L G	NLLK	V L	AV '	JAA	LQ	G
		251			- W - W - W			300
AAA25891	(251)	AKNH. V PD	DKAQVESN	LVG S A	A Q C	ATSAMA	VGAAREV	A PAR
AAG06957	(58)	AEVV S PA			A K L		APETARI	I E
Consensus	(251)	A I ILP	A I	A LA	АКЬ	IAI		350
	(222)	301 IRDAL <b>E</b> KVRP	an	upp <b>n</b> är ev	CONTAIN	ארא <u>ס</u> דם	PT.ECOC	
AAA25891	(301)	AAAAK LTLL	GP	WUUMGAS I	GENTINE	V EGEV D V SWYWYTE	DDILEN	GBN
AAG06957	(108) (301)	AAAAK	DAPVSGGVG	AG	V P			M
Consensus	(301)	351		NO	• •			400
AAA25891	(344)		KVEGYPDGN	WGPTF	GVRPDM	AIY EE	FGPŸLC	LAEV
AAG06957	(158)	IFHAGDHG G	OVAKICNNM	L GIL A	TAEALA	LGV NG	DPAVLS	EVMK
Consensus	(351)	D A	V	LG L		K L		
COMBONDED	(551)	401		•				450
AAA25891	(394)	DSLEQAIRLI	NESP GNGT	SIFT	<b>AARTFQ</b>	HHEEVGQ	GN P	IPVP
AAG06957	(208)		LYNP	PQAPÉSN	YÁGGFQ	VR MNKD	G A A	NAQA
Consensus	(401)	S L	PW	AS A			LGI I	
		451						500
AAA25891	(444)	PFFFFTGWK	SFYGDLHA	Y K-Q	RFYE	TKTVT	WFDSDS	VAGT
AAG06957	(258)	QAS PLGAL	RNLFSLHA	DAEHE	DFS	QKLYRSK	D	
Consensus	(451)	L S G	A LHA	A	SL F S	K AK		
		501			•			
AAA25891		NFSIQMR						
AAG06957	(299)							
Consensus	(501)							
		AAA25891	AAG069	57				
		and the second s	1.0					
AAA25891			14					
		64,						

AAG06957

## Sequence Alignment: alanine 2,3-aminomutase



	B. subtilis – SEQ. 22	B. subtilis – SEQ. 24	P. gingivalis – SEQ. 26
B. subtilis - SEQ. 22		100	. 59
B. subtilis – SEQ. 24			59
P. gingivalis – SEQ. 26			